

R13. Pulling it All Together

UNDERSTANDING ITS/CVO TECHNOLOGY APPLICATIONS

Reference Manual

MODULE 13 - PULLING IT ALL TOGETHER

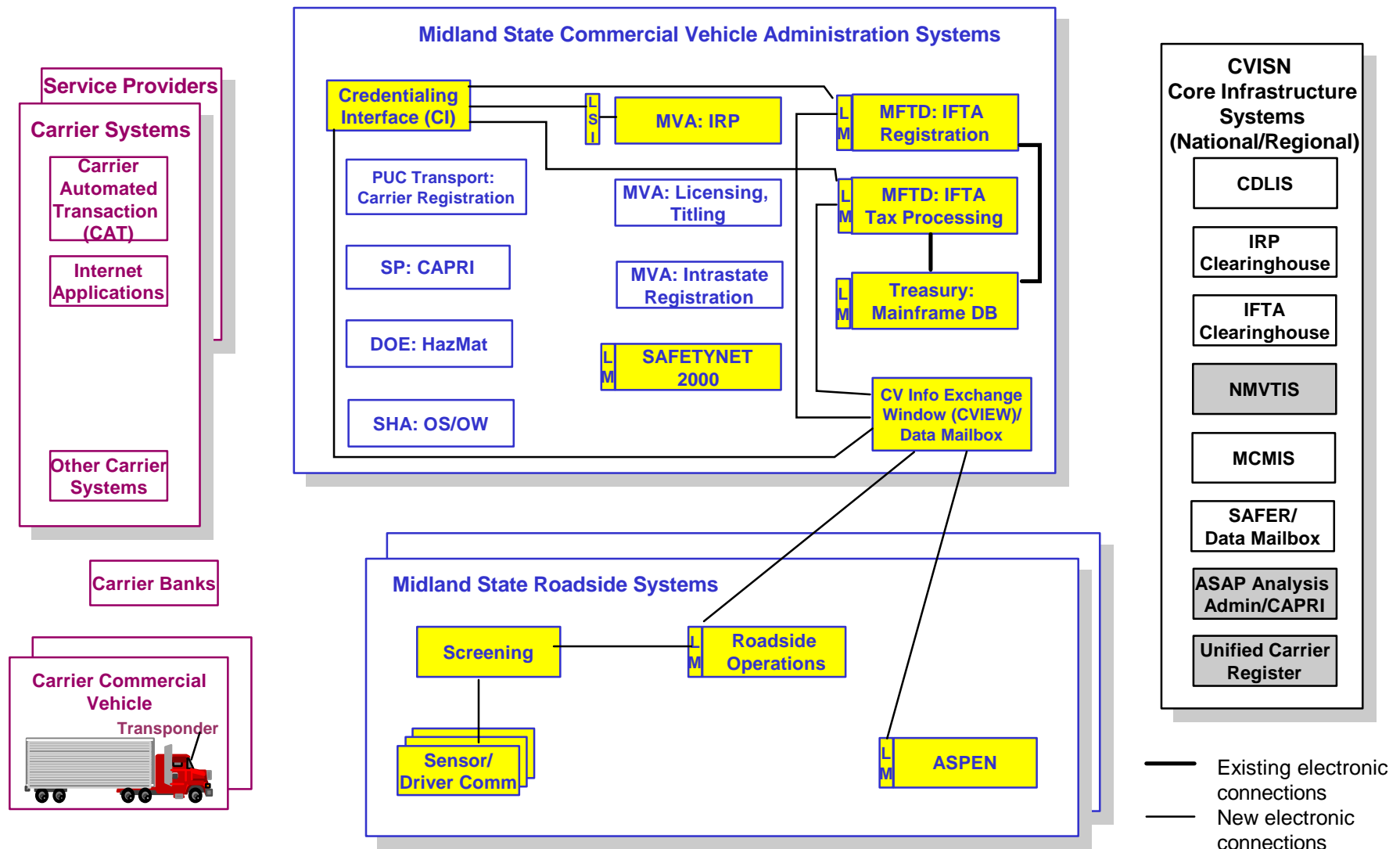


US Dept of Transportation

Network Upgrades

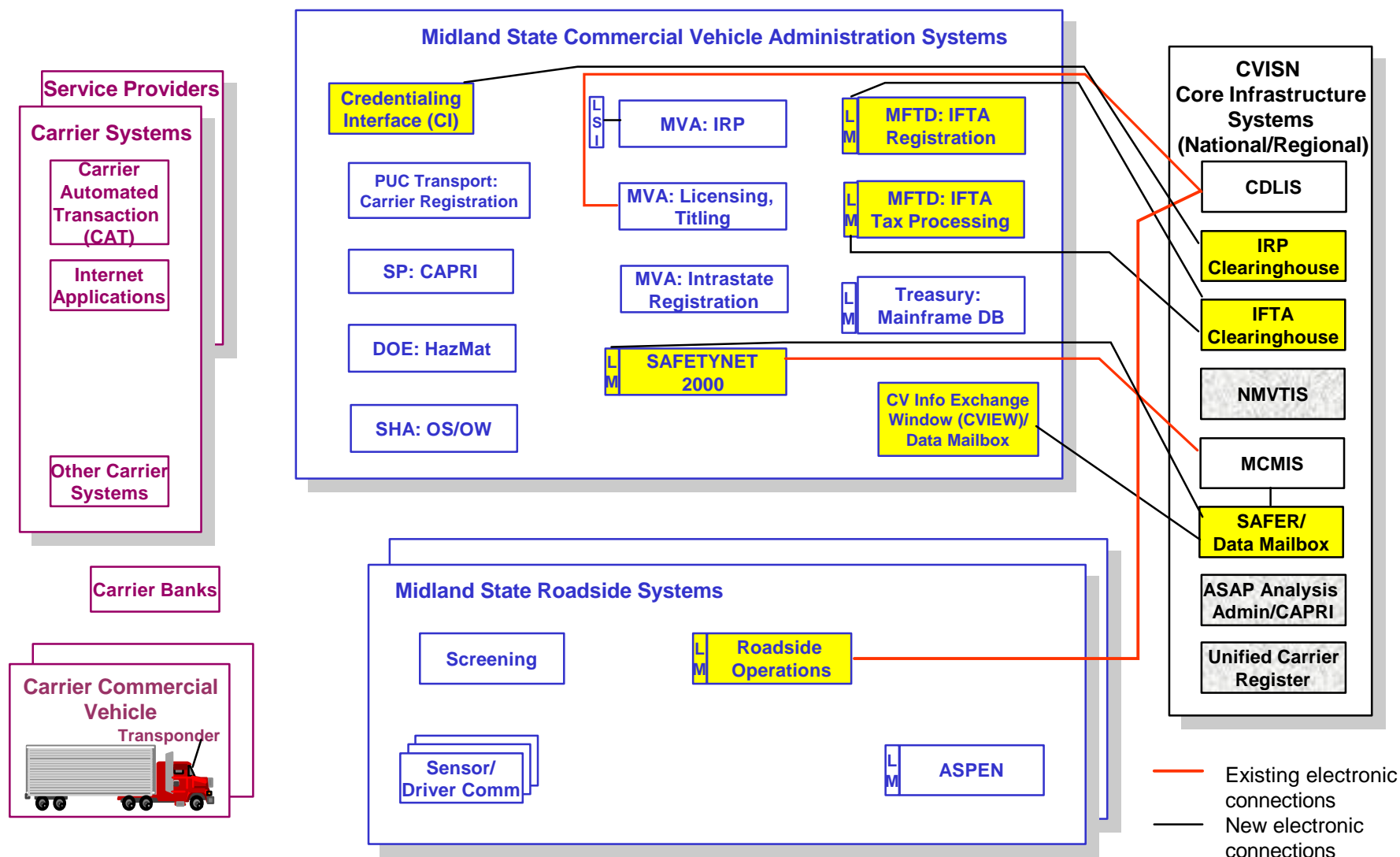
- LAN - connections within Midland
- WAN - connections between carriers and Midland, and between Midland and the CVISN Core Infrastructure systems
- Wireless - makes sense for roadside to vehicle (DSRC) and for roadside to deskside (CVIEW to Roadside Operations, CVIEW to ASPEN)
- Wireline - makes sense for fixed site to fixed site connections

Proposed Midland Design: Interfaces within the State



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Proposed Midland Design: State - Core Infrastructure Interfaces



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Interface Standards

- **EDI**

- Inspections - TS 284 CV Safety Reports
- Electronic Credentialing - TS 286 Commercial Vehicle (CV) Credentials
- Tax Filing - TS 813 Electronic Filing of Tax Return Data, TS 826 Tax Information Exchange, TS 150 Tax Rates, TS 151 Electronic Filing of Tax Return Data Acknowledgement
- Snapshots - TS 285 CV Safety & Credentials Information Exchange, TS 864 Text Message
- Electronic Payment - TS 286 Commercial Vehicle (CV) Credentials, Other TBD
- All - TS 997 Functional Acknowledgement

- **DSRC**

- Lower layers - ASTM E17.51
- Upper layer - IEEE P1455 CV Screening Message Set